

Washington River Protection Solutions
QUALITY ASSURANCE REQUIREMENTS

Revision No.:

0

Requisition No.: 293071	Safety Classification: <input type="checkbox"/> SC <input checked="" type="checkbox"/> SS <input type="checkbox"/> GS <input type="checkbox"/> N/A	Quality Level: <input type="checkbox"/> QL-1 <input checked="" type="checkbox"/> QL-2 <input type="checkbox"/> QL-3 <input type="checkbox"/> QL-0
Quality Assurance Engineer*: Jerry Heaney <i>Jerry Heaney</i>	Date: 9/7/16	Design Authority/Engineer*: <i>Kevin Ard</i> Kevin Ard
Date: 9/7/2016		

*QAE/DA/Engineer name if attached in Electronic Procurement System, otherwise, print, signature, and date.

Evaluation Criteria

The ANSI/ASME NQA-1 requirements checked below apply to this procurement. Clarifications are provided when the extent of coverage varies or when exceptions are taken. If no clarification is provided, the requirement applies as written.

Section A

ASME Version	NQA-1	NQA-1a	NQA-1b
Edition/Year	<input checked="" type="checkbox"/> 2008	<input checked="" type="checkbox"/> 2009	<input type="checkbox"/> 2011

NQA-1 Part I

(All) OR (Specify)

- | | |
|--|---|
| <p><input checked="" type="checkbox"/> 1. Organization</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> 100 Basic <input checked="" type="checkbox"/> 200 Structure and Responsibility <input checked="" type="checkbox"/> 300 Interface Control <p><input checked="" type="checkbox"/> 2. Quality Assurance Program</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> 100 Basic <input checked="" type="checkbox"/> 200 Indoctrination and Training <input checked="" type="checkbox"/> 300 Qualification Requirements <input checked="" type="checkbox"/> 400 Records of Qualification (2008) <input checked="" type="checkbox"/> 500 Records <p><input checked="" type="checkbox"/> 3. Design Control</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> 100 Basic <input checked="" type="checkbox"/> 200 Design Input <input checked="" type="checkbox"/> 300 Design Process <input checked="" type="checkbox"/> 400 Design Analyses <input checked="" type="checkbox"/> 500 Design Verification <input checked="" type="checkbox"/> 600 Change Control <input checked="" type="checkbox"/> 700 Interface Control <input checked="" type="checkbox"/> 800 Software Design Control <input checked="" type="checkbox"/> 900 Documentation and Records <p><input checked="" type="checkbox"/> 4. Procurement Document Control</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> 100 Basic <input checked="" type="checkbox"/> 200 Content of the Procurement Documents <input checked="" type="checkbox"/> 300 Procurement Document Review <input checked="" type="checkbox"/> 400 Procurement Document Changes <p><input checked="" type="checkbox"/> 5. Instruction Procedures and Drawings</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> 100 Basic <p><input checked="" type="checkbox"/> 6. Document Control</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> 100 Basic <input checked="" type="checkbox"/> 200 Document Control <input checked="" type="checkbox"/> 300 Document Changes <p><input checked="" type="checkbox"/> 7. Control of Purchased Items and Services</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> 100 Basic <input checked="" type="checkbox"/> 200 Supplier Evaluation Selection <input checked="" type="checkbox"/> 300 Bid Evaluation <input checked="" type="checkbox"/> 400 Control of Supplier Generated Documents <input checked="" type="checkbox"/> 500 Acceptance of Item or Service <input checked="" type="checkbox"/> 600 Control of Supplier Nonconformances <input checked="" type="checkbox"/> 700 Commercial Grade Items and Services <input checked="" type="checkbox"/> 800 Records | <p><input checked="" type="checkbox"/> 8. Identification and Control of Items</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> 100 Basic <input checked="" type="checkbox"/> 200 Identification Methods <input checked="" type="checkbox"/> 300 Specific Requirements <p><input checked="" type="checkbox"/> 9. Control of Special Processes</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> 100 Basic <input checked="" type="checkbox"/> 200 Process Control <input checked="" type="checkbox"/> 300 Responsibility <input checked="" type="checkbox"/> 400 Records <p><input type="checkbox"/> 10. Inspection</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> 100 Basic <input checked="" type="checkbox"/> 200 Inspection Requirements <input checked="" type="checkbox"/> 300 Inspection Hold Points <input checked="" type="checkbox"/> 400 Inspection Planning <input checked="" type="checkbox"/> 500 In-Process Inspection <input checked="" type="checkbox"/> 600 Final Inspections <input type="checkbox"/> 700 Inspections During Operations (2008) <input checked="" type="checkbox"/> 800 Records (2008) <p><input checked="" type="checkbox"/> 11. Test Control</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> 100 Basic <input checked="" type="checkbox"/> 200 Test Requirements <input checked="" type="checkbox"/> 300 Test Procedures (other than computer programs) <input checked="" type="checkbox"/> 400 Computer Program Test Procedures <input checked="" type="checkbox"/> 500 Test Results <input checked="" type="checkbox"/> 600 Test Records <p><input checked="" type="checkbox"/> 12. Control of Measuring and Test Equipment</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> 100 Basic <input checked="" type="checkbox"/> 200 Selection <input checked="" type="checkbox"/> 300 Calibration and Control <input checked="" type="checkbox"/> 400 Records <p><input checked="" type="checkbox"/> 13. Handling, Storage and Shipping</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> 100 Basic <input checked="" type="checkbox"/> 200 Special Requirements <input checked="" type="checkbox"/> 300 Procedures <input checked="" type="checkbox"/> 400 Tools and Equipment <input checked="" type="checkbox"/> 500 Operators <input checked="" type="checkbox"/> 600 Marking or Labeling <p><input checked="" type="checkbox"/> 14. Inspection, Test and Operating Status</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> 100 Basic |
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☒ **15. Control of Non-Conforming Items**

- ☒ 100 Basic
- ☒ 200 Identification
- ☒ 300 Segregation
- ☒ 400 Disposition

☒ **16. Corrective Action**

- ☒ 100 Basic

☒ **17. Quality Assurance Records**

- ☒ 100 Basic
- ☒ 200 Generation of Records
- ☒ 300 Authentication of Records
- ☐ 400 Classification
- ☒ 500 Receipt Control of Records

17. Quality Assurance Records (continued)

- ☒ 600 Storage
- ☐ 700 Retention
- ☒ 800 Receipt Control of Records

☒ **18. Audits**

- ☒ 100 Basic
- ☒ 200 Scheduling
- ☒ 300 Preparation
- ☒ 400 Performance
- ☒ 500 Reporting
- ☒ 600 Response
- ☒ 700 Follow-Up Action
- ☒ 800 Records

NQA-1 Part II (Subparts)

Quality Assurance Requirements for:

(Specify)

Introduction (Information Only)

- 100 Purpose
- 200 Applicability
- 300 Responsibility
- 400 Planning and Procedures
- 500 Definitions
- 600 Multiunit Facility Provisions

2.1 Cleaning of Fluid Systems and Associated Components for Nuclear Power Plants

- 100 General (Information Only)
- ☐ 200 General Requirements
- ☐ 300 Cleanness Criteria
- ☐ 400 Manufacturing Phase Cleanness
- ☐ 500 Cleanness Prior to Installation
- ☐ 600 Cleanness During Installation
- ☐ 700 Maintenance of Installation Cleanness
- ☐ 800 Preoperational Cleaning
- ☐ 900 Layup and Postlayup Cleaning
- ☐ 1000 Post-operational Repairs and Modifications
- ☐ 1100 Records

2.2 Packaging, Shipping, Receiving, Storage, and Handling of Items for Nuclear Power Plants

- 100 General (Information Only)
- ☒ 200 General Requirements
- ☒ 300 Packaging
- ☒ 400 Shipping
- ☒ 500 Receiving
- ☒ 600 Storage
- ☒ 700 Handling
- ☒ 800 Records

2.3 Housekeeping for Nuclear Power Plants

- 100 General (Information Only)
- ☐ 200 General Requirements
- ☐ 300 Requirements
- ☐ 400 Records

2.5 Installation, Inspection, and Testing of Structural Concrete, Structural Steel, Soils, and Foundations for Nuclear Power Plants

- 100 General (Information Only)
- 200 General Requirements (Information Only)
- ☐ 300 Requirements
- ☐ 400 Preconstruction Verification
- ☐ 500 Inspection of Soils and Earthwork
- ☐ 600 Inspection of Foundation Pile and Caisson Construction
- ☐ 700 Inspection of Concrete Construction
- ☐ 800 Inspection of Steel Construction
- ☐ 900 Data Analysis and Evaluation
- ☐ 1000 Records

2.7 Computer Software for Nuclear Facility Applications

- 100 General (Information Only)
- ☒ 200 General Requirements
- ☒ 300 Software Acquisition
- ☒ 400 Software Engineering Method
- ☒ 500 Standards, Conventions, and Other Work Practices
- ☒ 600 Support Software
- 700 References (Information Only)

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2.8 Installation, Inspection, and Testing of Mechanical Equipment and Systems for Nuclear Power Plants

100 General (*Information Only*)

- ☐ 200 General Requirements
- ☐ 300 Pre-installation Verification
- ☐ 400 Control During Installation Process
- ☐ 500 Installed Systems Inspection and Tests
- ☐ 600 Data Analysis and Evaluation
- ☐ 700 Records

2.14 Commercial Grade Items and Services

100 General (*Information Only*)

200 Definition Applications (*Information Only*)

- ☒ 300 Utilization
- ☒ 400 Technical Evaluation
- ☒ 500 Critical Characteristics
- ☒ 600 Methods of Accepting Commercial Grade Items
- ☒ 700 Commercial Grade Services
- ☒ 800 Documentation

2.15 Hoisting, Rigging, and Transporting of Items for Nuclear Power Plants

100 General (*Information Only*)

- ☒ 200 General Requirements
- ☒ 300 Types of Handling Equipment
- ☒ 400 Design Requirements

☐ **2.15 Hoisting, Rigging, and Transporting of Items for Nuclear Power Plants (continued)**

- ☒ 500 Acceptance Criteria for Manufactured Handling Equipment
- ☒ 600 Testing, Inspection, and Maintenance
- ☒ 700 Control of the Use of Handling Equipment
- ☒ 800 Qualifications of Personnel
- ☒ 900 Records

2.18 Maintenance of Nuclear Facilities

100 General (*Information Only*)

- ☐ 200 General Requirements
- ☐ 300 Preventative Maintenance
- ☐ 400 Corrective Maintenance
- ☐ 500 Records

2.20 Subsurface Investigations for Nuclear Power Plants

100 General (*Information Only*)

- ☐ 200 General Requirements
- ☐ 300 Verification Requirements
- ☐ 400 Field Investigation Requirements
- ☐ 500 Laboratory Testing
- ☐ 600 Evaluation and Analysis
- ☐ 700 Records

Section B – Other National Standards

	National Standard Title:	ID Doc. Designation	Edition/Year	Section
a.				
b.				
c.				
d.				
e.				
f.				
g.				

Section C - Other Requirements or Clarifications, indicate requirement edition or year/date (such as NQA-1, Part, III, or IV)